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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,889	10/17/2005	Michael Graupe	CL001396 PCT/US	1365

23519 7590 06/16/2006

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EXAMINER

CHU, YONG LIANG

ART UNIT	PAPER NUMBER
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1626

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/536,889	GRAUPE ET AL.	
	Examiner	Art Unit	
	Yong Chu	1626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-37 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-37 are currently pending in the instant application and are subject to the following new lack of unity requirement.

Election/Restrictions

Restriction is required under 35 U.S.C. 372.

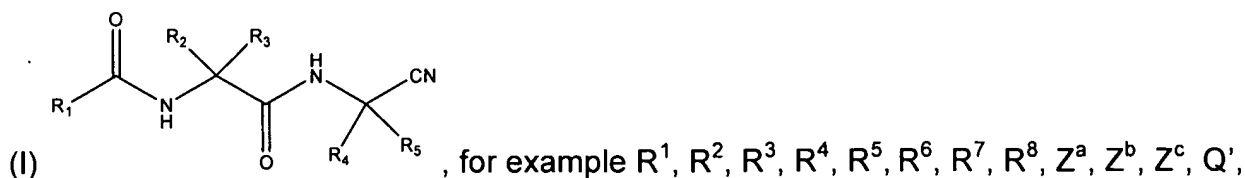
This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Claims 1-37 are drawn to more than one inventive concept (as defined in PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states that unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Due to the numerous and widely divergent variables in the compound of formula



Z, X, etc., a precise listing of inventive groups cannot be made. The following groups are exemplary:

Group I: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (i), as depicted in Claim 1, page 102.

Group II: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (ii), as depicted in Claim 1, page 102.

Group III: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (iii), as depicted in Claim 1, page 102.

Group IV: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (iv), as depicted in Claim 1, page 102.

Group V: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (v), as depicted in Claim 1, page 102.

Group VI: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (vi), as depicted in Claim 1, page 102.

Group VII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (vii), as depicted in Claim 1, page 103.

Group VIII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (viii), as depicted in Claim 1, page 103.

Group IX: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (ix), as depicted in Claim 1, page 103.

Group X: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (x), as depicted in Claim 1, page 103.

Group XI: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xi), as depicted in Claim 1, page 103.

Group XII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xii), as depicted in Claim 1, page 103.

Group XIII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xiii), as depicted in Claim 1, page 103.

Group XIV: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xiv), as depicted in Claim 1, page 104.

Group XV: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xv), as depicted in Claim 1, page 104.

Group XVI: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xvi), as depicted in Claim 1, page 104.

Group XVII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xvii), as depicted in Claim 1, page 104.

Group XVIII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xviii), as depicted in Claim 1, page 104.

Group XIX: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xix), as depicted in Claim 1, page 104.

Group XX: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xx), as depicted in Claim 1, page 104.

Group XXI: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xxi), as depicted in Claim 1, page 104.

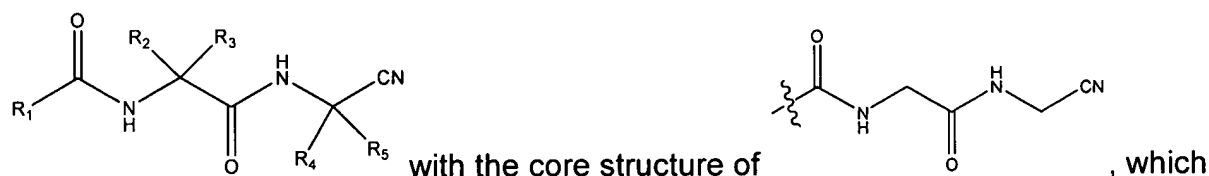
Group XXII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xxii), as depicted in Claim 1, page 104.

Group XXIII: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xxiii), as depicted in Claim 1, page 104.

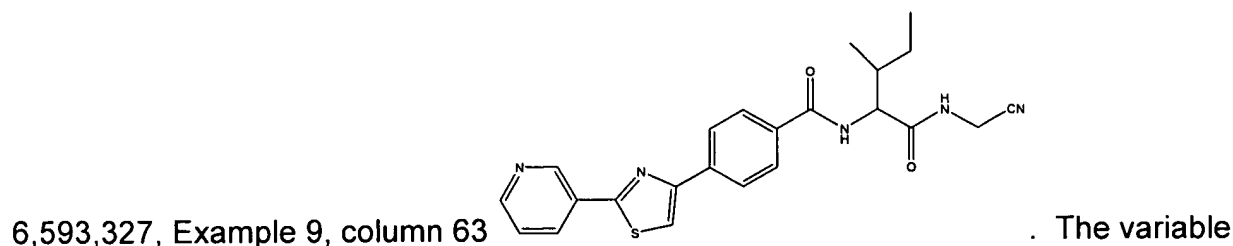
Group XXIV: Claims 1-37 drawn to products and methods of using the compound of formula (I) wherein **R1** is formula (xxiv), as depicted in Claim 1, page 104.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

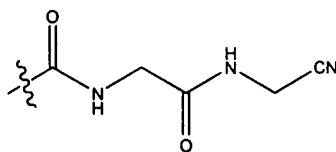
The claims herein lack unity of invention under PCT rule 13.1 and 13.2 since, under 37 CFR 1.475(a) the compounds defined in the claims lack a significant structural element qualifying as the special technical feature that defines a contribution over the prior art. The technical feature of the instant claim(s) is cyanomethyl derivatives



does not define a contribution over the prior art by Bryant et al., U.S. Pat. Num.



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substituents on the core structure

vary extensively and when

taken as a whole result in vastly different compounds.

Accordingly, unity of invention is considered to be lacking and restriction of the invention in accordance with the rules of unity of invention is considered to be proper. Additionally, the vastness of the claimed subject matter, and the complications in understanding the claimed subject matter imposes a serious burden on any examination of the claimed subject matter.

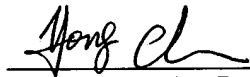
Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed Yong Chu whose telephone number 571-272-5759. The examiner can normally be reached on 7:00 am - 3:30 pm EST.

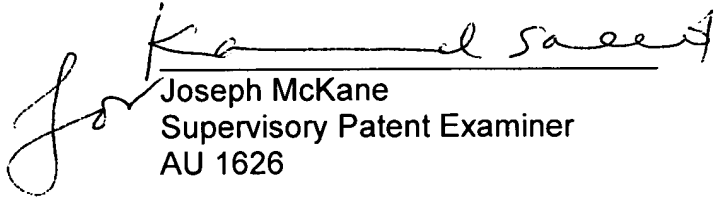
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Yong Chu, Ph.D.
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